# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.05/GR/CEMENT/2014-15 Date: 16.08.2014

## TEST REPORT

| | | |
|---|---|---|
| **CLIENT** | : | **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore. |
| **AGENCY** | : | **Mr. Gopireddy**, Contractor, Bangalore. |
| **NAME OF THE WORK** | : | Providing CC Road at Ravi's House Road, Sampigehalli in Ward No. 05 in Chokkanahalli Village Limit, BBMP, Bangalore. |
| **REFERENCE** | : | AEE/Byatarayanapura/BBMP/74/2014-15 Dated: 13.08.2014 |
| **SAMPLE ID** | : | CEMENT |
| **SAMPLES SUPPLIED BY** | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-1989 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 185 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 490 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 25.50 % | - |

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

M/s. Civil-Tech Consultants & Engineers
# 23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.05/GR/SAND/2014-15 : 16.08.2014

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

**Agency** : **Mr. Gopireddy,** Contractor, Bangalore.

**Name of Work** : Providing CC Road at Ravi's House Road, Sampigehalli in Ward No. 05 in Chokkanahalli Village Limit, BBMP, Bangalore.

**Reference** : AEE/Byatarayanapura/BBMP/74/2014-15 Dated: 13.08.2014

Date of Testing : 16.08.2014

Material : Sand Total Wt. of Aggregates in gms 2000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 87 | 4.35 | 4.35 | 95.7 | 90-100 |
| 2.36 | 239 | 11.95 | 16.30 | 83.7 | 75-100 |
| 1.18 | 384 | 19.20 | 35.50 | 64.5 | 55-90 |
| 600 Micron | 528 | 26.40 | 61.90 | 38.1 | 35-59 |
| 300 Micron | 478 | 23.90 | 85.80 | 14.2 | 8-30 |
| 150 Micron | 212 | 10.60 | 96.40 | 3.6 | 0-10 |

**Note:**

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-26

M/s. Civil-Tech Consultants & Engineers
# 23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No.: CTCE/BBMP/W.No.05/GR/AGG/2014-15 : 16.08.2014

## TEST REPORT ON COARSE AGGREGATES
## IS 383-1970 (RA- 2002)

**Client** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

**Agency** : **Mr. Gopireddy,** Contractor, Bangalore.

**Name of Work** : Providing CC Road at Ravi's House Road, Sampigehalli in Ward No. 05 in Chokkanahalli Village Limit, BBMP, Bangalore.

**Reference** : AEE/Byatarayanapura/BBMP/74/2014-15 Dated: 13.08.2014

Date of Testing : 16.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25050

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 567 | 2.26 | 2.26 | 97.74 | 95-100 |
| 20 | 16125 | 64.37 | 66.63 | 33.37 | 30-70 |
| 10 | 5412 | 21.60 | 88.24 | 11.76 | 10-35 |
| 4.75 | 2678 | 10.69 | 98.93 | 1.07 | 0-5 |

**Note:**

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

M/s. Civil-Tech Consultants & Engineers
# 23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/GR/CUBE/2014-15 28.08.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore. |
| Agency | : **Mr. Gopireddy,** Contractor, Bangalore. |
| Name of the work | : Providing CC Road at Ravi's House Road, Sampigehalli in Ward No. 05 in Chokkanahalli Village Limit, BBMP, Bangalore. |
| Reference | : AEE/Byatarayanapura/BBMP/74/2014-15 Dated: 13.08.2014 |
| Sample ID | : Pavement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $7^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 21.08.2014 | 28.08.2014 | 8.128 | 348.9 | 15.51 |
| 2 | 21.08.2014 | 28.08.2014 | 8.215 | 361.7 | 16.08 |
| 3 | 21.08.2014 | 28.08.2014 | 8.336 | 381.5 | 16.96 |

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

**M/s. Civil-Tech Consultants & Engineers**
**# 23/14, 7th Cross, 3rd Stage,**
**4th Block, Shakthiganapathinagara,**
**Basaveshwaranagar,**
**Bangalore-560079.**

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com